SHARP

SERVICE MANUAL



SHAR-03693 CONTENTS

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MODEL **EL-5808**

1. SPECIFICATIONS

(1) Keys' layout

\bigcirc	(DRG)	\bigcirc	(OFF)	(ON)	
1/x	sin ^{-l}	cos -1	tan -1	n/	
hyp	sin	cos	tan	CE	
→D.MS	10 ^x	log	<i>→x y</i>	STAT	
→ DEG	ex	ln	rθ	ţ.	
π	31/	γ-	△%	n Σ^{χ}	
EXP	yx	x ²	()	
7	8	9	÷	$\frac{\overline{x} \Sigma \chi^2}{x \to M}$	
4	5	6	×	S ø	
1	2	3	-	DATA CD M+	
0	<u> </u>	•	+	=	

(2) Display:

FEM type liquid crystal 8 digits for mantissa part 2 digits for exponent part

• Character's shape

M: Memory symbol-: Minus symbolE: Error symbol

STAT: Statistical program symbol

DEG: Degree symbol RAD: Radian symbol GRAD: Grad symbol

X10: Exponent portion displays symbol

Battery indicator

(3) Automatic power off function: 7±3 minutes

(4) LSI:

SC3759

(5) Dimensions:

 $5(H) \times 71(W) \times 127(D) \text{ mm}$

3/16"(H) x 2-25/32"(W) x 5"(D)

(6) Power supply:

Silver oxide battery G-10G x 2

(Please note that only Eveready model 389, and Ray-O-Vac model

RW49 or equivalent should be used)

(7) Operating time:

Approx. 600 hours of operation at silent mode.

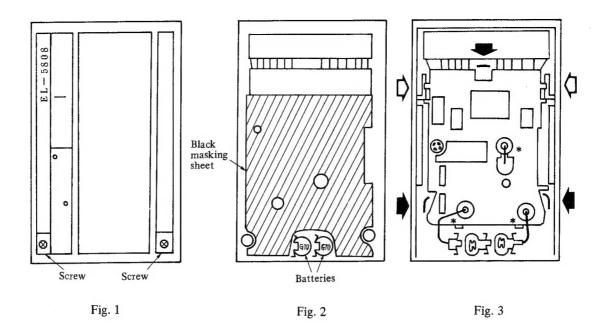
(Display 5555. at ambient temperature 20°C (68°F))

Approx. 450 hours of operation

 (1111×5) = at ambient temperature 20° C $(68^{\circ}$ F))

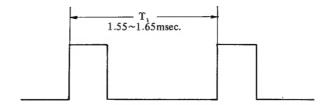
2. SERVICING

- (1) Disassembly Procedure
 - 1. Turn over the set.
 - 2. Take out the bottom panel after loosing the two screws that is securing the bottom panel (Fig. 1).
 - 3. Pull out the two batteries (Fig. 2).
 - 4. Carefully peel off the black masking sheet which is applied to the chassis. (Fig. 2)
 - 5. Remove soldered leads of the PWB at three portions (Fig. 3 * mark)
 - 6. Take out the chassis after remove the two pawls that is securing the chassis (Fig. 3 m
 - 7. Take out the PWB unit after remove the three pawls that is securing the PWB unit. (Fig. 3 mark)



(2) Control adjustment

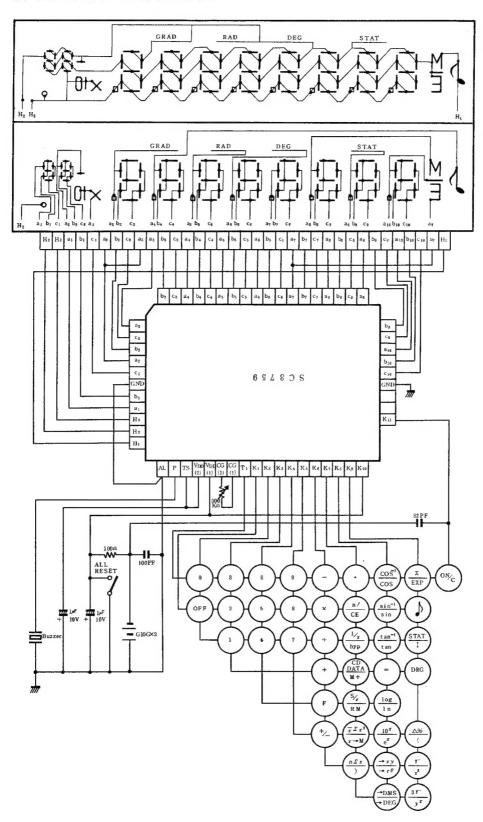
Keep Vin to 3.15 ± 0.05 V make sure that the signal T_1 is within the range of 1.55msec $\leq T_1 \leq 1.65$ msec. If the above value is not satisfied, adjust it by using the control variable resistor.



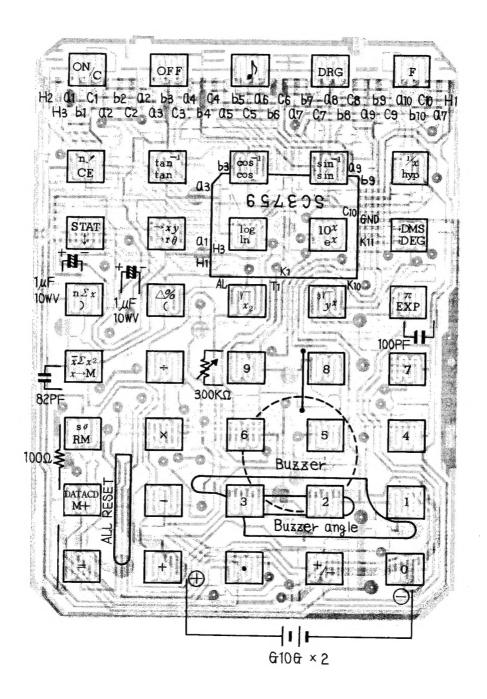
(3) All reset switch

This is located on the back of the calculator. You should use this switch only when you can't clear the machine by touching key after the battery replacement.

3. CIRCUIT DIAGRAM



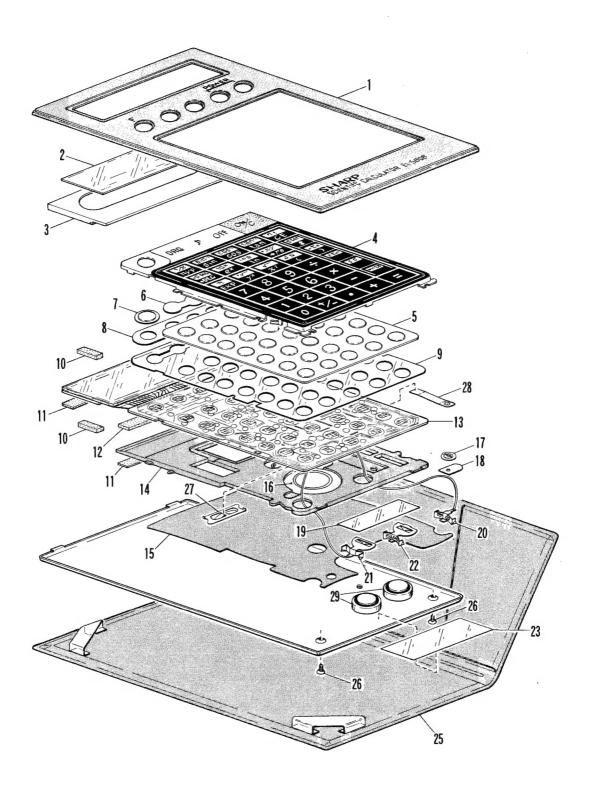
4. PARTS & SIGNAL POSITION



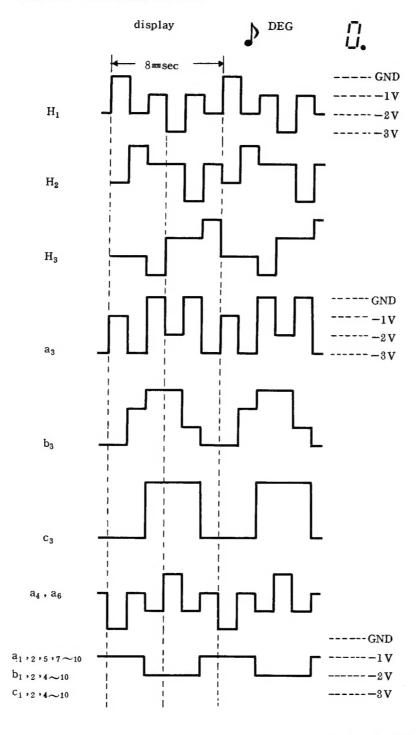
5. PARTS LIST

NO.	PARTS CODE	DESCRIPTION	NEW PARTS MARK	EXPORT PRICE RAN
1	CCABB1976CCO1	Top cabinet	N	AR
2	PFiLWI188CCZZ	Filter	N	ΑE
3	PSLDP1129CCZZ	Display mask	N	A D
4	DANGTO412CSZZ	Key panel	N	AK
5	PGUMMII33CCZZ	Key rubber	N	АН
6	PGUMMII34CCZZ	Key rubber (4key)	N	A C
7	PGUMMI I 36CCZZ	Key rubber (Fkey)	N	A C,
8	PSPAPI 157CCZZ	Switch spacer (5key)	N	АВ
9	PZETL1219CCZZ	Key spacer	N	AA
10	PCUSSI079CCZZ	L. C. D cushion A		AA
11	PSHE-1045CCZZ	L. C. D cushion B		A A
12	PCUSG 099CCZZ	L. C. D cushion C	N	AA
13	DUNTK5053CSZZ	P. W. B unit (with L.S.i, L.C.D and electronics)	N	вк
14	DWAKM0416CSZZ	Chassis (with buzzer)	N	AK
15	PSLDP1128CCZZ	Sheet	N	A B
16	RALMB 003CCZZ	Buzzer		A G
17	PHOKW1002CCZZ	Hook		AA
18	PSHEP1028CCZZ	Sheet fixing book		A A
19	PZETL1221CCZZ	Mylar sheet (for top cabinet)	N	AA
20	QTANZ 205CCZZ	Battery terminal (+)	N	A C
21	QTANZ 206CCZZ	Battery terminal (-)	N	A C
22	QTANZ I 207CCZZ	Battery terminal (+, -)	N	A B
23	PZETL I 220CCZZ	Mylar sheet (for bottom panel)	N	AA
24	HDECA I 423CCZZ	Bottom panel (w/o mylar sheet)	N	AL
25	UBAGZII3ICCZZ	Book type case	N	AH
26	XBSSC20P04000	Screw	14	AA
27	LANGT 2 3CCZZ	Buzzer angle		A B
28	QCNTM1036CCZZ	All reset switch contact	N	A B
20	QONTINITOSOCOZZ	An react switch contact	1	A D
SI SI T(T T T R(R(R(T T T T R(R(PPAPM1003CCZZ	Memo pad		A A
	SPAKC2802CCZZ	Packing case (U.S.A)	N	A B
	SPAKC2804CCZZ	Packing case (Other countries)	N	A B
	TCAUKI123CCZZ	Caution lavel	11	
	TiNSE2239CCZZ	Instruction book (English)	N	A A
	TiNSM2240CCZZ	Instruction book (E, F, G, S)	N	A G
	RC-CZ1008CCZZ	Capacitor 82PF 50WV	N	AA
	RC-KZ1007CCZZ	Capacitor 100PF	I N	A B
	RC-SZ1007CCZZ	Capacitor 1µF		AF
	RVR-M3511QCZZ	Variable resistor 300Kohm		A D
	VH:SC3579//-I	L. S. i SC3579	N	BE
	VRC-MT2BGIOIK	Resistor 1/8W 100 ohm ±10%	- N	AA
	VRC-WIZBGIOTK	resistor 1/8W 1000lilli 1/10%		AA
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6. PARTS GUIDE



7. SIGNAL WAVEFORM



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